



## **GROUND RULES**



- Forum for sharing the Dhamma based on Bhante Punnaji's translations and interpretations;
- Explore from a modern, scientific, and experiential perspective;
- Welcome to compare translations but strictly no debate;
- We are here to share our understanding of Bhante's translations and interpretations.

© BTAN. All Rights Reserved

SCIENCE OF DHAMMA FORUM



# **Synopsis**



- Saññā (sensation) & Vedanā (feeling);
- 器 Sankhāra (mental construction);
- Wiññāna (perception);
- # Five Constituents of the Process of Perception (Pañca-khandha).

This understanding of Saññā & Vedanā is at the core of many of Bhante's explanations — Arūpa Samādhi (Saññā Vedayita Nirodha), Paţicca-Samuppāda...

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM

Slide 3



## What is "Truth"



Level 3 Page 84 (Page 85) If truth is one, and no second exists
Debates will never arise among folk
A variety of truths they themselves do form
Gurus therefore never speak of one truth
Ekaṁ hi saccaṁ na dutiyamatthi
Yasmiṁ pajā no vivade pajānaṁ,
Nānā te saccāni sayaṁ thunanti
Tasmā na ekaṁ samanā vadanti

Never was there a variety of truths

Other than <u>sensations</u> always in the world

Creating views using speculative logic

They speak of a duality: falsehood and truth

Na heva saccāni bahuni nānā

Aññatra <u>saññā</u>ya niccāni loke,

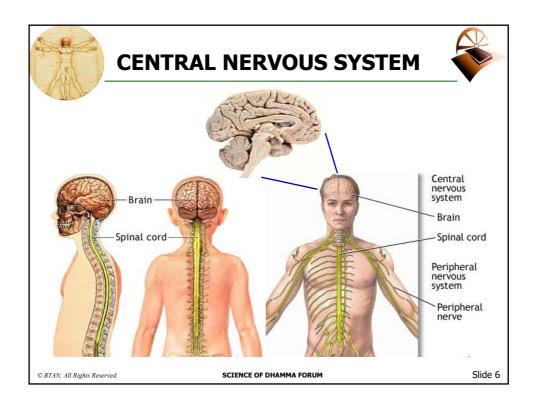
Takkañca diṭṭhisu kapappayitvā

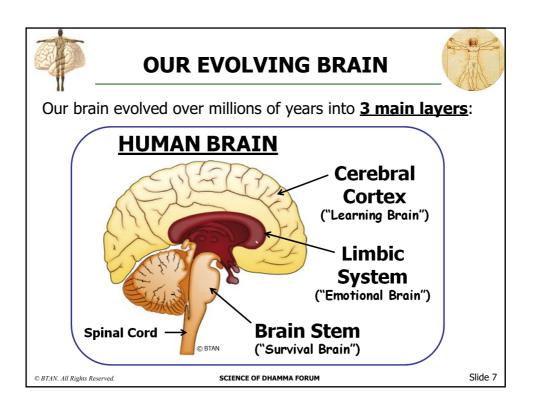
Saccaṁ musāti dvayadhammamāhu

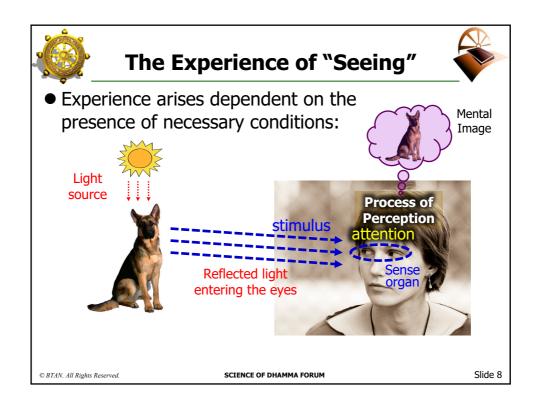
© BTAN. All Rights Reserved

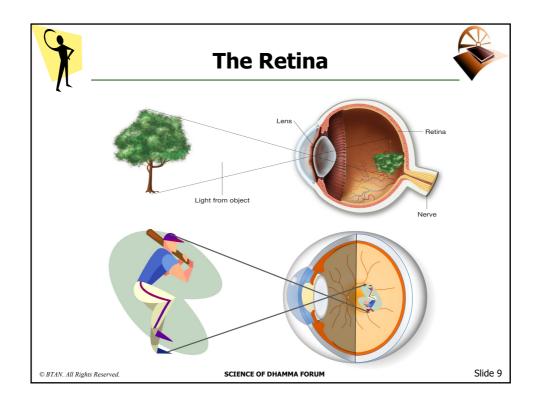
SCIENCE OF DHAMMA FORUM

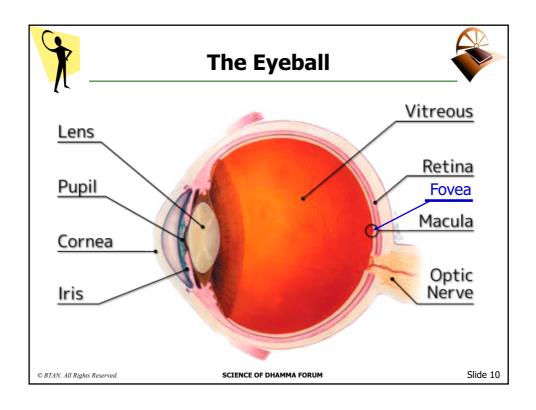


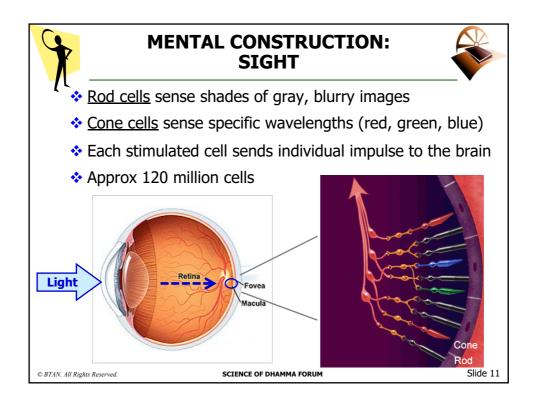


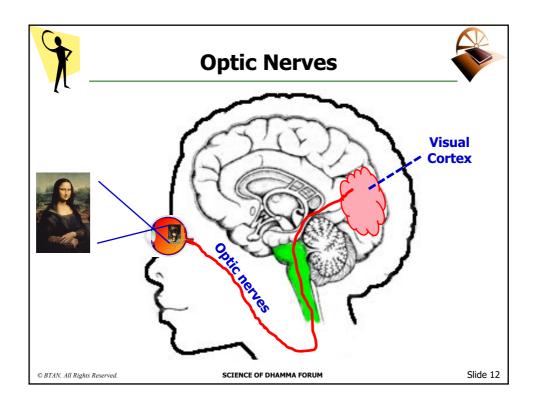














## Page 62 & Page 117 (124)



#### Page 62 (62):

What we call an experience is a mental process of <u>perception</u> and <u>conception</u> that begins at the five sense bases and is carried to the brain as the sixth sense through nerve impulses. Though we call it a mental process it is really a physical activity. Experience as understood normally is of two kinds: 1) subjective experience and 2) objective experience.

#### Page 117 (124):

EYE: is stimulated by light in the environment coming in the form of electromagnetic waves.

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM

Slide 13



# Page 118 *(125)*



If we consider the sense of sight, what is perceived by the eye is only a visual image (rūpa). The image is produced when the body reacts to the stimulus and so experiences a feeling (vedanā) and a sensation (saññā). Sensation (saññā) refers to the "colour," and feeling (vedanā) refers to the pleasantness or unpleasantness of the colour.

In the case of hearing, sensation (saññā) refers to the nature of the sound, and feeling (vedanā) refers to the pleasantness or unpleasantness felt in the ear.

Sensation (saññā) is always accompanied by feeling (vedanā) and so they are inseparable. Sensation and the feeling are reactions of the organism to stimulation by the environment.

Sensation and feeling become the **raw material** used for the construction of mental images by the thinking part of the brain.

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM



### **Sensation of Colours**



- The simple act of seeing a colour triggers a <u>spontaneous</u> reaction in the central nervous system this is automatic;
- It isn't caused by any <u>association</u>, but <u>by the wavelength</u> of the colour;
- Objects reflect light at different wavelengths, and our brain interprets these wavelengths as different colours;
- Blue (the shortest wavelength) through green and yellow, to red (the longest wavelength);
- The long wavelengths (red & orange) are said to <u>arouse</u> <u>the nervous system</u> - heartrate and blood pressure increase.
- The short wavelengths (blue & violet) are meant to **relax the nervous system**.

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM

Slide 15



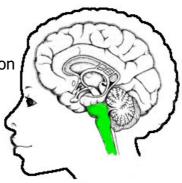
# THE PROCESS OF PERCEPTION



PAÑCA-KHANDHA (traditionally "the 5 aggregates")

### **The 5 Constituents of the Process of Perception**

- 1. Vedanā Feeling
- 2. Saññā Sensation
- Sańkhāra Mental Construction
- 4. Viññāna Perception
- 5. Rūpa Mental Image



© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM



### SENSE STIMULATION

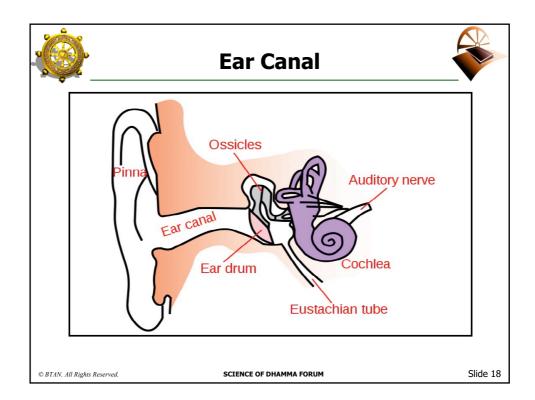


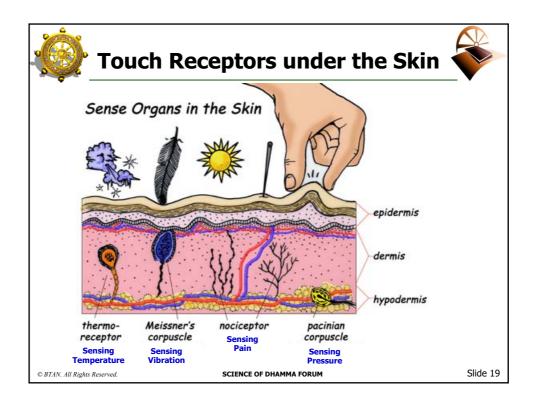
Environmental activities stimulate the sense organs:

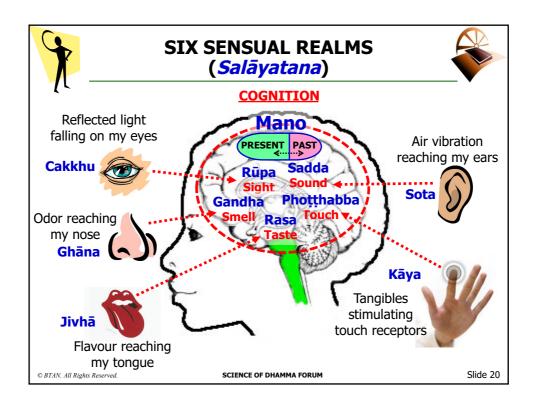
- SIGHT: Reflected light stimulates cone and rod cells in the retina;
- ➤ <u>HEARING:</u> Air vibration stimulates the ear-drum;
- > <u>TOUCH:</u> Pressure, temperature, vibration, chemicals stimulate tactile sensory receptors under the skin;
- SMELL: Odorant molecules bind to receptor cells in the olfactory bulb;
- ➤ <u>TASTE:</u> Flavour molecules react chemically with gustatory sense receptors in the taste buds;
- ☐ Stimulations trigger <u>sensation</u> ("saññā") and arouse <u>feeling</u> ("vedanā") in nervous system.

BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM









## Page 118 (125)



This construction process (sankhāra) is a mental activity. The result of this activity of construction is the formation of the mental images, which are **perceived** (viññāṇa). From moment to moment, every mental image (rūpa) <u>that arises fades away</u> to be replaced by another mental image that arises. This happens in a continuous manner, **making us feel the continuity to be seen as a static existence**.

Since a <u>multiplicity of objects</u> are present in a complex mental image, a differentiation between one object and another becomes necessary in the **process of perception** (viññāṇa).

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM

Slide 21



# **MENTAL EXPERIENCE**

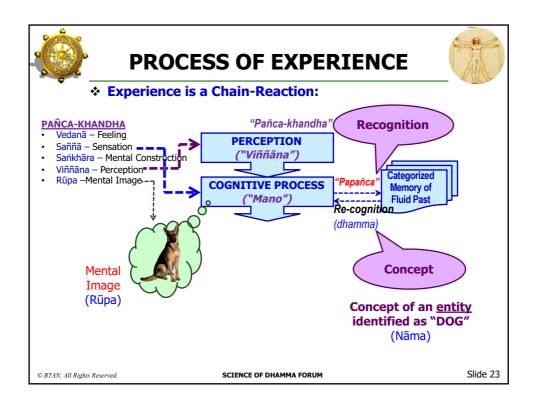


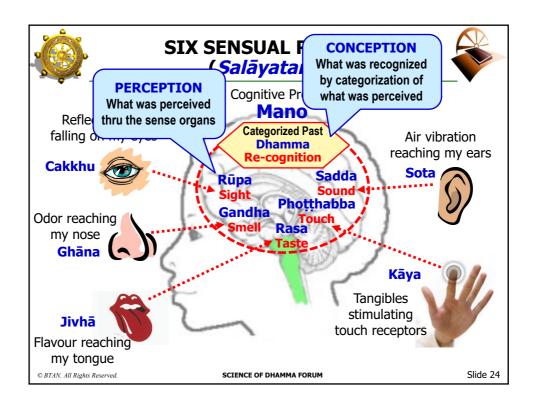
#### THREE PARTS OF MENTAL EXPERIENCES:

- Viññāna : Process of Perception
  - > what is perceive through the sense organs;
- Mano : Cognitive Process
  - > interpretation of the perception;
  - > giving meaning to what was perceived;
- Citta: <u>Affective Process</u>
  - > arousal of emotion leading to mental proliferation;
  - personalizing the experience with the notion there is a "self" to be affected.

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM







# SENSATION ("saññā")



- ❖Stimulation of sense organ triggers nerve impulses or <u>sensation</u> ("<u>saññā</u>") in the nervous system carried to the brain:
  - SIGHT: sensation refers to the sensing of wavelength ("colour") and intensity ("brightness") of the light stimuli;
  - HEARING: sensation refers to the sensing of air vibration <u>frequency</u> ("pitch") and <u>amplitude</u> ("loudness");
  - > ...etc

© BTAN. All Rights Reserved.

SCIENCE OF DHAMMA FORUM

Slide 25



# FEELING ("vedanā")



- Sensation ("saññā") is always simultaneously accompanied by feeling ("vedanā") in the nervous system (inseparable):
  - SIGHT: feeling refers to how the nervous system is irritated by long wavelengths (red, orange, yellow) and high intensity (bright) light, and soothed by short wavelengths (blue, green) and low intensity (dim) light;
  - <u>HEARING:</u> feeling refers how the nervous system is irritated by high frequency (pitch) and large amplitude (loud) sound waves, and soothed by low frequency and soft mellow sound waves.

© BTAN. All Rights Reserved

SCIENCE OF DHAMMA FORUM